

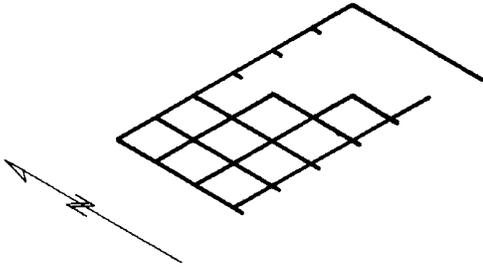
Chapter A

Irregular Standard Parallel in Oregon

A8

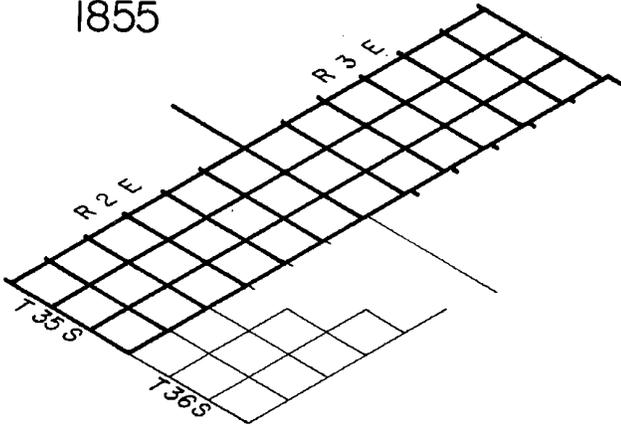
History of Surveys

1854



1854 Butler Ives and George W. Hyde surveyed the 8th Standard Parallel South, through Range 2 East. They set their corners every 40 and 80 chains and marked them for T. 36 S., R. 2 E., the township to the south. They then subdivided a portion of that township but ran only the lines between sections 4 and 5. 5 and 6, into their standard corners.

1855



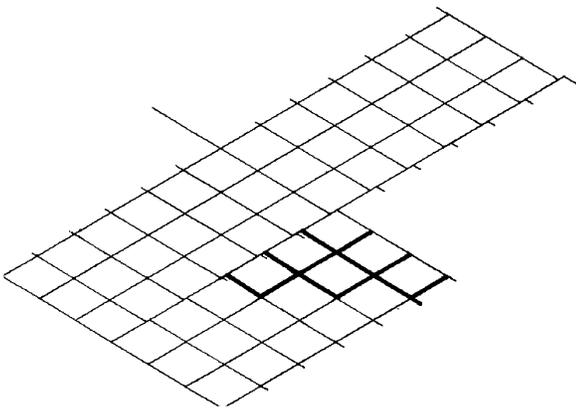
1855 Nathaniel Ford received a contract to survey and subdivided T. 35 S., Rs. 2 and 3 E.

Ford reported running south between ranges 2 and 3 east, intersecting the Ives and Hyde Standard Parallel 2.64 chains west of the standard corner of T. 36 S., Rs. 2 and 3 E., and established a closing corner for T. 35 S., Rs. 2 and 3 E. Ford then reported retracing the Standard Parallel, running west on the Ives and Hyde line and setting "closing corners" for T. 35 S., R. 2 E., every 40 and 80 chains. Ford called the Ives and Hyde corners, in every instance, to be 264 chains east of his "closing corners."

Next, Ford surveyed the standard parallel through range 3 east, setting corners at 40 and 80 chain intervals marked for T. 36 S., R. 3 E., and established the standard corner of T. 36 S., Rs. 3 and 4 E. He then reported running south between T. 35 S., Rs. 3 and 4 E., intersected his standard parallel 3.44 chains west of his standard corner of T. 36 S., Rs. 3 and 4 E. Ford then reports retracing his own standard parallel, running west from his closing township corner, setting corners every 40 and 80 chains (which he again termed "closing corners") for T. 35 S., R. 3 E. In each case the corners were 3.44 chains west of his standard corners. He reported the south boundary of section 31 as 79.20 chains, to his closing corner of T. 35 S., Rs. 2 and 3 E.

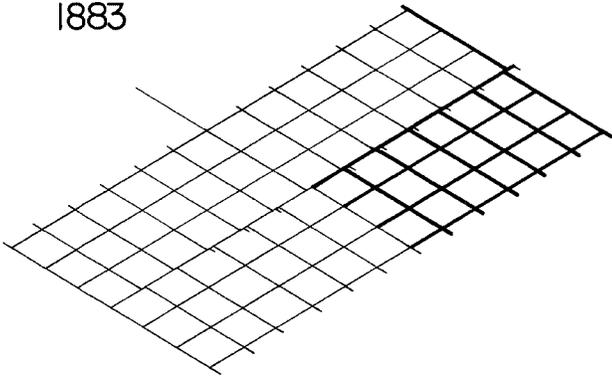
Ford reported subdividing T. 35 S., Rs. 2 and 3 E., initiating the subdivisional lines at his "closing corners" along the standard parallel.

1882



1882 William M. Turner completed the subdivisional lines of T. 36 S., R. 2 E. Turner ran north between sections 1 and 2, 2 and 3, 3 and 4, setting closing corners short distances (29 to 52 links) east of Ives and Hyde's Standard corners. Ives and Hyde's monuments along the north boundary of sections 1-4 no longer marked the corner of sections, and became angle points controlling the Standard Parallel.

1883

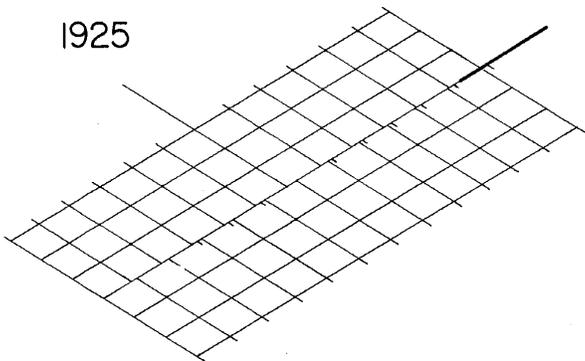


1883 Rufus S. Moore was given the contract to survey T. 36 S., R. 3 E. Moore surveyed the east boundary running north. He intersected Ford's Standard Parallel 9.62 chains west of what he called the standard corner of T. 35 S., Rs. 3 and 4 E. Moore redescribed the corner which coincides with Ford's description of the standard corner of T. 36 S., Rs. 3 and 4 E. Moore then retraced the standard parallel running west from the standard township corner. Moore fell 132 links south of a blazed line at 40 chains and set a new 1/4 section corner on the blazed line. He then ran west from that point and at 80.82 chains (40.82 chains from the 1/4 section corner) fell 50 links south of what he called the corner of sections 35 and 36. The description fits the Ford standard corner of sections 1 and 2. Moore continued this pattern of running west and at stated distances failing a given distance north or south of what he calls corners for T. 35 S., but describing Ford's standard corners. Finally, he reached what he called the standard corner of T. 35 S., Rs. 2 and 3 E. His redescription conforms with Ives and Hyde's record of the standard corner of T. 36 S., Rs. 2 and 3 E., and his plat shows this corner as a corner of all four townships. In no instance does Moore ever call for or describe any of the so called "closing corners" that Ford allegedly set along the Standard Parallel for T. 35 S., R. 3 E.

Later, Moore retraced the east boundary of T. 35 S., R. 3 E., prior to subdividing T. 35 S., R. 4 E. Moore began his retracement at what he calls the standard corner of T. 35 S., Rs. 3 and 4 E., but again describes Ford's standard corner for T. 36 S., Rs. 3 and 4 E. Running north, Moore fell 57 links west of Ford's 1/4 section corner of sections 31 and 36 (at 40.15 chains.)

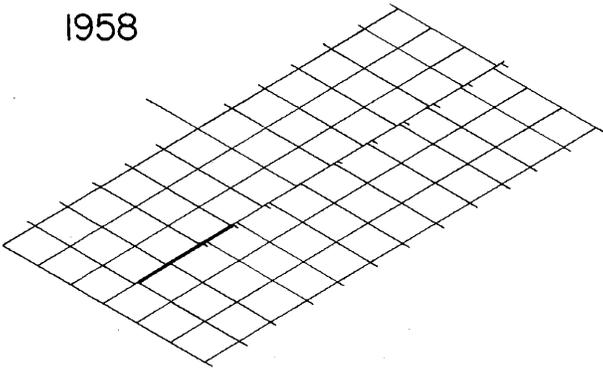
Moore also subdivided T. 36 S., R. 3 E. He ran north on all of his lines between the north tier of sections and intersected the Standard Parallel. He set closing (section) corners and gave ties to Ford's standard corners but again calling them corners for T. 35 S., R. 3 E.

1925



1925 Lincoln E. Wilkes retraced the Standard Parallel from Ford's standard corner of T. 36 S., Rs. 3 and 4 E., west for 1/2 mile to the 1/4 section corner set by Moore (on what Moore called the south boundary of section 36.) Wilkes found Moore's closing township corner at 9.65 chains due west of Ford's standard corner. He amended it and set a new closing corner at the true point of intersection 28 links north. Wilkes found no trace of any of Ford's corners for T. 35 S., R. 3 E. Wilkes also calls Ford's standard corner the standard corner for T. 35 S., Rs. 3 and 4 E.

1958



1958 Hans W. Thielsen resurveyed a portion of the 8th Standard Parallel in Range 2 East along the north boundary of sections 3, 4 and 5, T. 36 S., R. 2 E. Thielsen found the former Ives and Hyde standard 1/4 section corner of section 3 and standard corner of sections 3 and 4, which became angle points when Turner completed T. 36 S., R. 2 E., in 1882. Thielsen also recovered Ives and Hyde's standard corner of sections 4 and 5 and standard 1/4 section corner of section 5. None of the corners reportedly established by Ford were found nor was Turner's closing corner of sections 3 and 4 found.

Figure 1 is a portion of Ives and Hyde's plat of T. 36 S., R. 2 E., to which the Turner completions were added.

1957

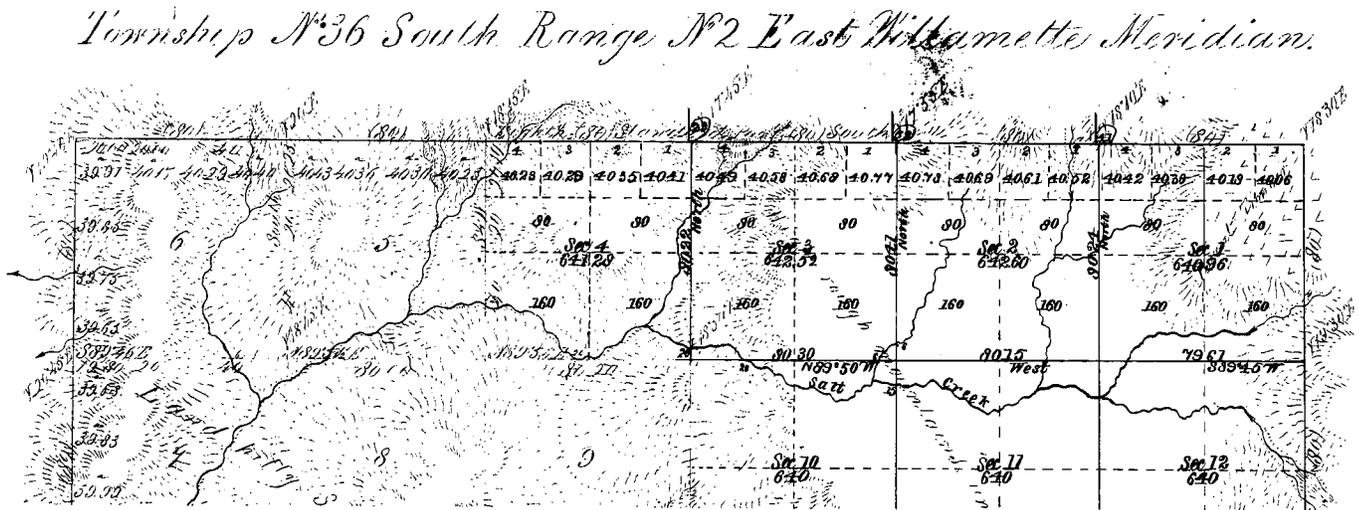


Figure 1 - Portion of Ives and Hyde, Turner Completion

Figure 2 is a portion of Ford's plat of T. 35 S., R. 2 E.

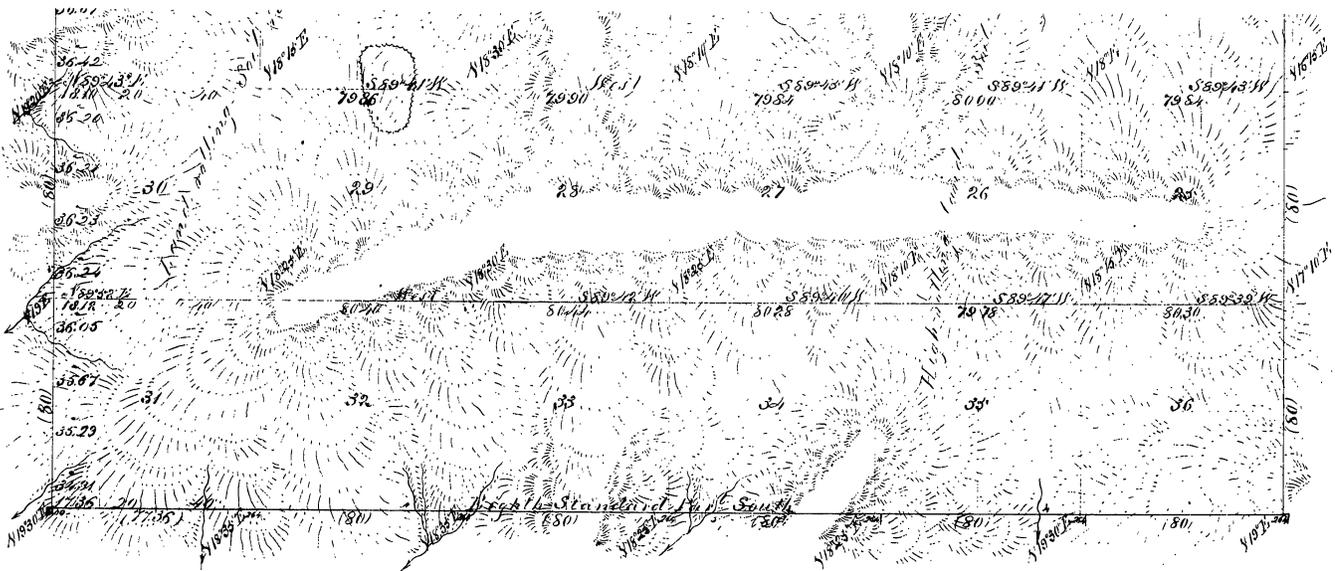


Figure 2 - Portion of Ford Plat, T. 35 S., R. 2 E.

Figure 3 is a portion of Ford's plat of T. 35 S., R. 3 E.

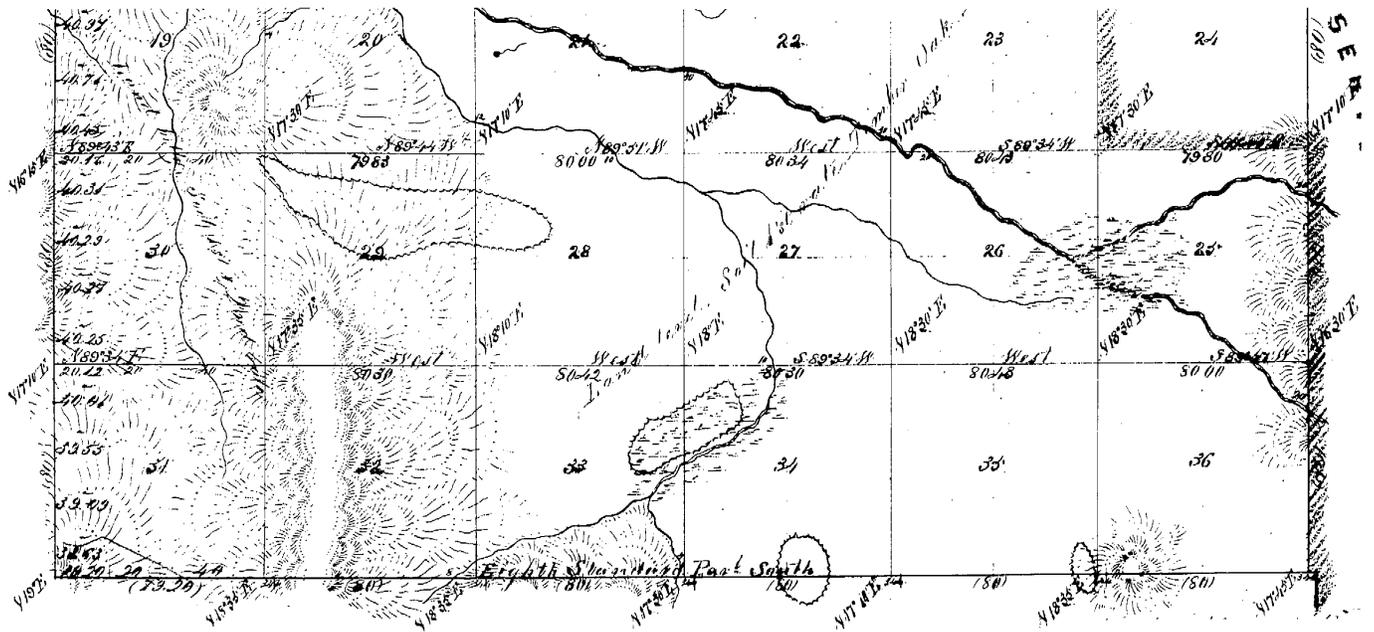


Figure 3 - Portion of Ford Plat, T. 35 S., R. 3 E.

Figure 4 is a portion of Moore's plat of T. 36 S., R. 3 E.

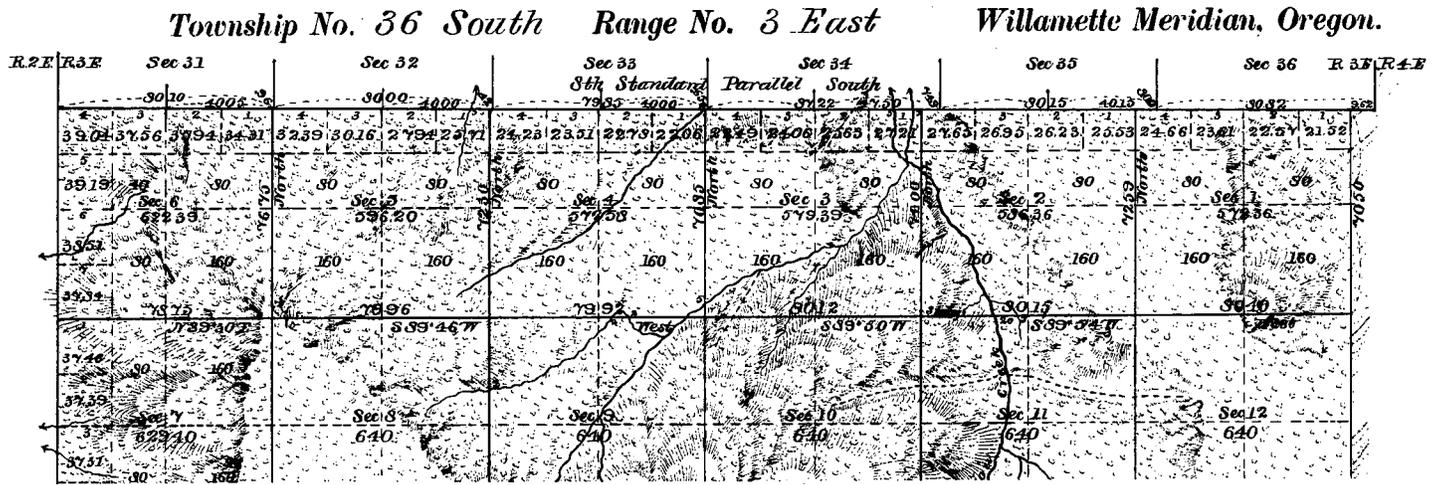


Figure 4 - Portion of Moore Plat, 1883

Figure 5 is a composite sketch of the survey records with Moore's retracements reduced to true bearing and distance for purposes of this discussion. **See next page for enlargements.**

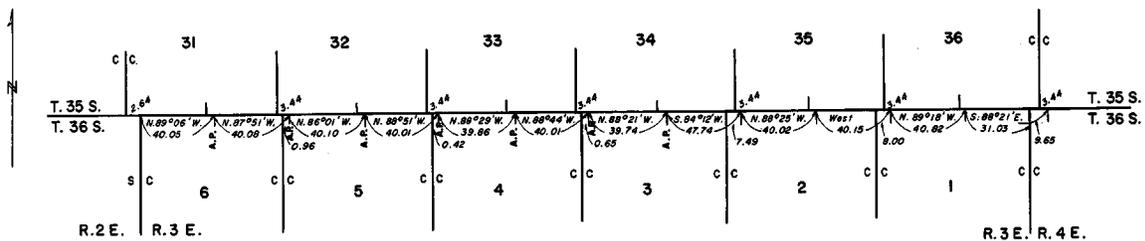
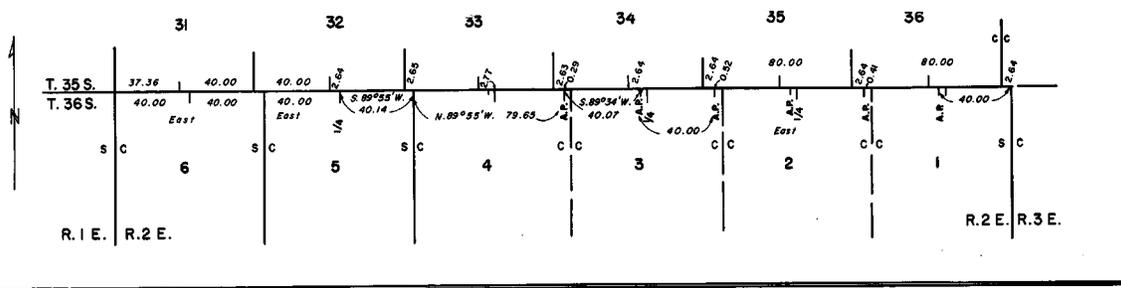


Figure 5 - Combined Record

Reasons for Request of this Survey

Timber sales and the determination of suspected timber trespasses depended upon proper identification of and restoration of survey corners. The Medford District Manager requested a resurvey.

Special Instructions

On April 20, 1962, Special Instructions for Group 473, Oregon, were prepared. They provided for the dependent resurvey of portions of the Eighth Standard Parallel South, resurvey of portions of the boundaries, subdivisional lines and subdivision of certain sections in Tps. 35 and 36 S., R. 2 E., and T. 36 S., R. 3 E., Willamette Meridian, Oregon. Field work began on August 21, 1962.

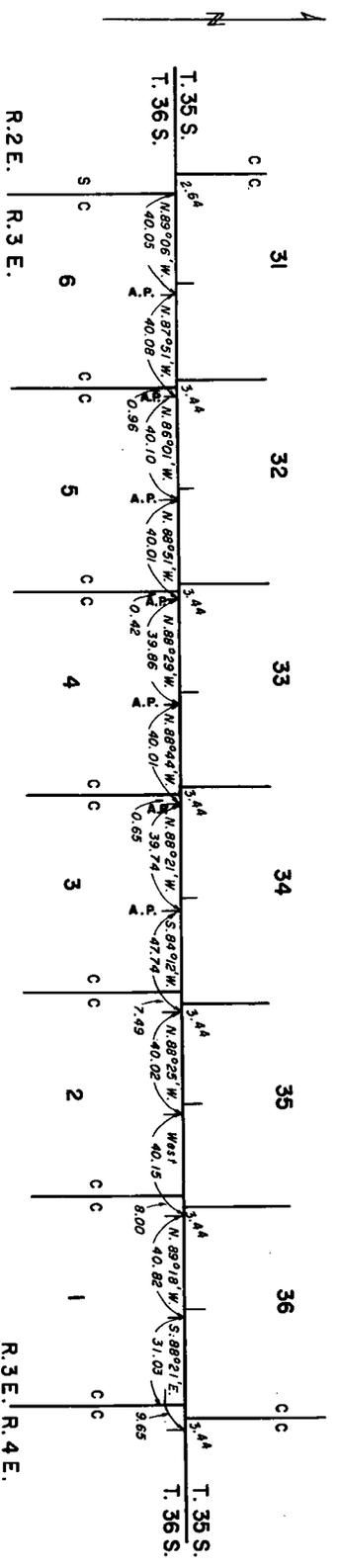
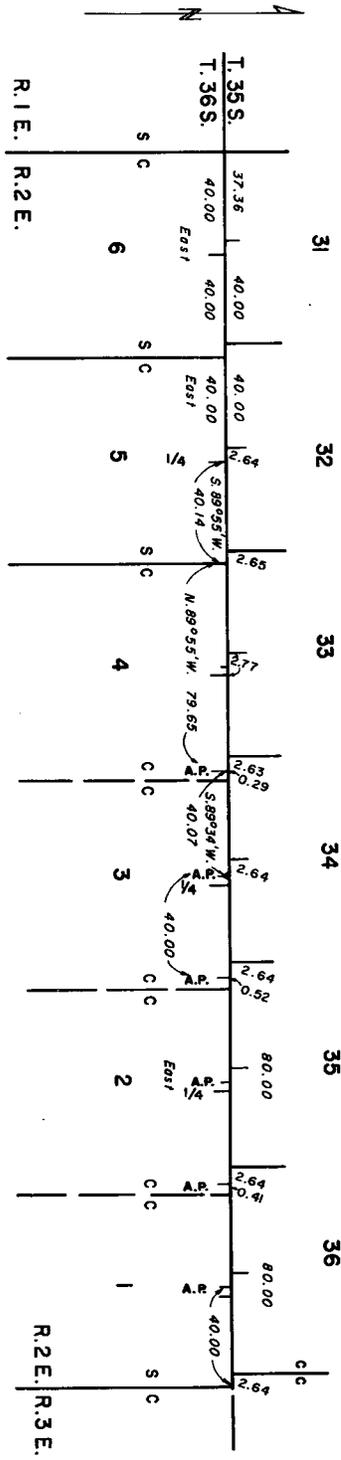


Figure 5 - Combined Record

Conditions Found on the Ground

This discussion is limited to the restoration of certain corners along the Eighth Standard Parallel.

The standard parallel was retraced easterly from Ives and Hyde's former standard 1/4 section corner of section 3, T. 36 S., R. 2 E., (now an angle point) to Ford's standard corner of sections 5 and 6, T. 36 S., R. 3 E., (also an angle point.) Figure 6 indicates the recovered corners and relationships after thorough search and investigation. No evidence of any kind was found of Ford's corners for Tps. 35 S., Rs. 2 and 3 E., nor Turner's closing corners for sections 1 and 2, 2 and 3, T. 36 S., R. 2 E. Moore's closing corner of sections 5 and 6, T. 36 S., R. 3 E., was recovered in a position that eventually identified the restored standard parallel.

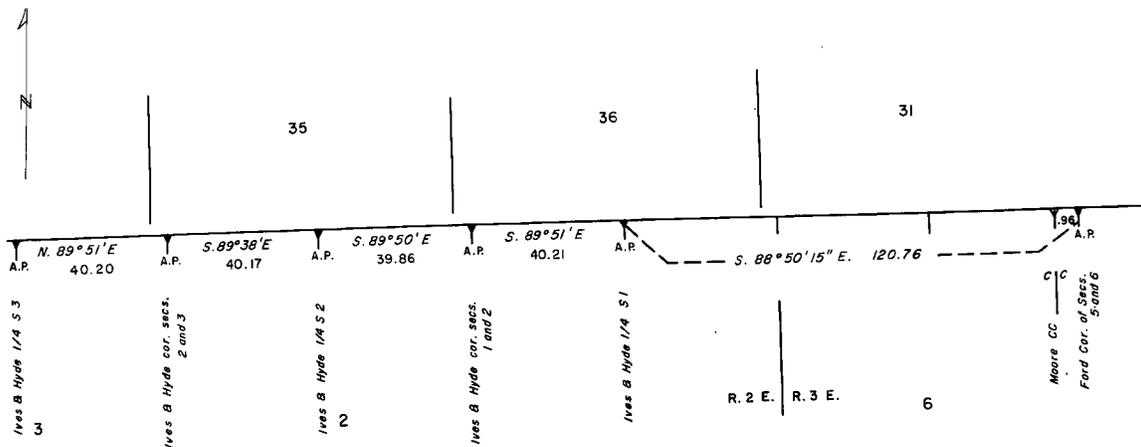


Figure 6 - Retracement Data

Preliminary Statement of the Problem

The surveyor must restore the lost corners along the 3 ½ miles of the Eighth Standard Parallel and establish corners between closing corners.

Regulations

This survey illustrates the application of the following sections of the Manual of Surveying Instructions, 1973:

- | | |
|------------------------|---|
| 3-75, 3-87 and
3-92 | Protection of areas represented
on official plat |
| 5-32 | Restoration of standard corners |
| 5-36 | Restoration of irregular boundary |
| 5-41 | Restoration of closing corners |

Final Statement of the Problem

The surveyor must restore the lost corners and angle points along the standard parallel, and establish the north 1/4 section corner of section 6, T. 36 S., R. 3 E., north 1/4 section corner and the east and west 1/16 section corners on the north boundary of section 1, and the north 1/4 section corners of sections 2 and 3, T. 36 S., R. 2 E. The position of the corners to be established must be based upon the representations on the approved plats shown in Figures 1 and 4.

Solution

Ives and Hyde's standard corner of T. 36 S., Rs. 2 and 3 E., and Ford's 1/4 section corner of section 6, T. 36 S., R. 3 E., (the latter is now an angle point) were restored by an irregular boundary proportionment based on Moore's record retracements and on the Ives and Hyde - Ford record surveys.

The lost corners of Ford's survey for T. 35 S., Rs. 2 and 3 E., were all restored by single proportionment between the controlling angle points and standard township corner.
The lost closing corners set by Turner were restored by single proportionate measurement also.

The 1/4 section corners of sections 1, 2 and 3, were placed at midpoint in departure between closing corners of those sections. The 1/16 section corners for section 1 were established at midpoint positions.

The north 1/4 section corner of section 6 was established based on the areas of lots 1 thru 4 as shown on Moore's plat. Although by Moore's own record the north boundary of section 6 was 79.14 chains in departure, all of the areas in section 6 are based on an 80.10 chain departure (which is the distance Moore returned between the Ford corners.) The areas as represented on the Moore plat were protected.

The plats of survey were accepted August 10, 1965, and are shown in Figure 7.

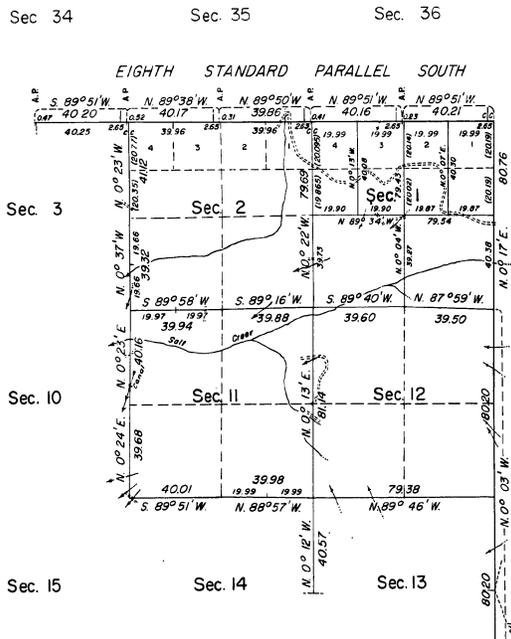


Figure 7a - Portion of Accepted Plat, T. 36 S., R. 2 E.

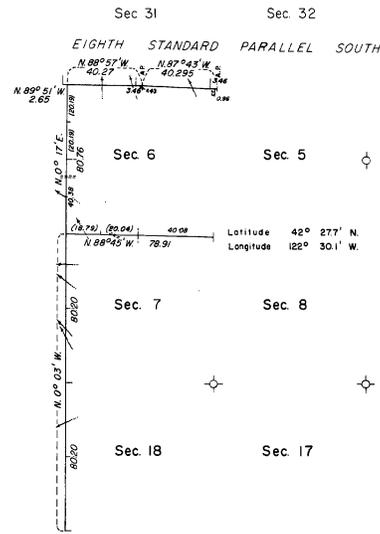


Figure 7b - Portion of Accepted Plat

See Enlargements on the following pages.

Sec 31

Sec. 32

EIGHTH STANDARD PARALLEL SOUTH

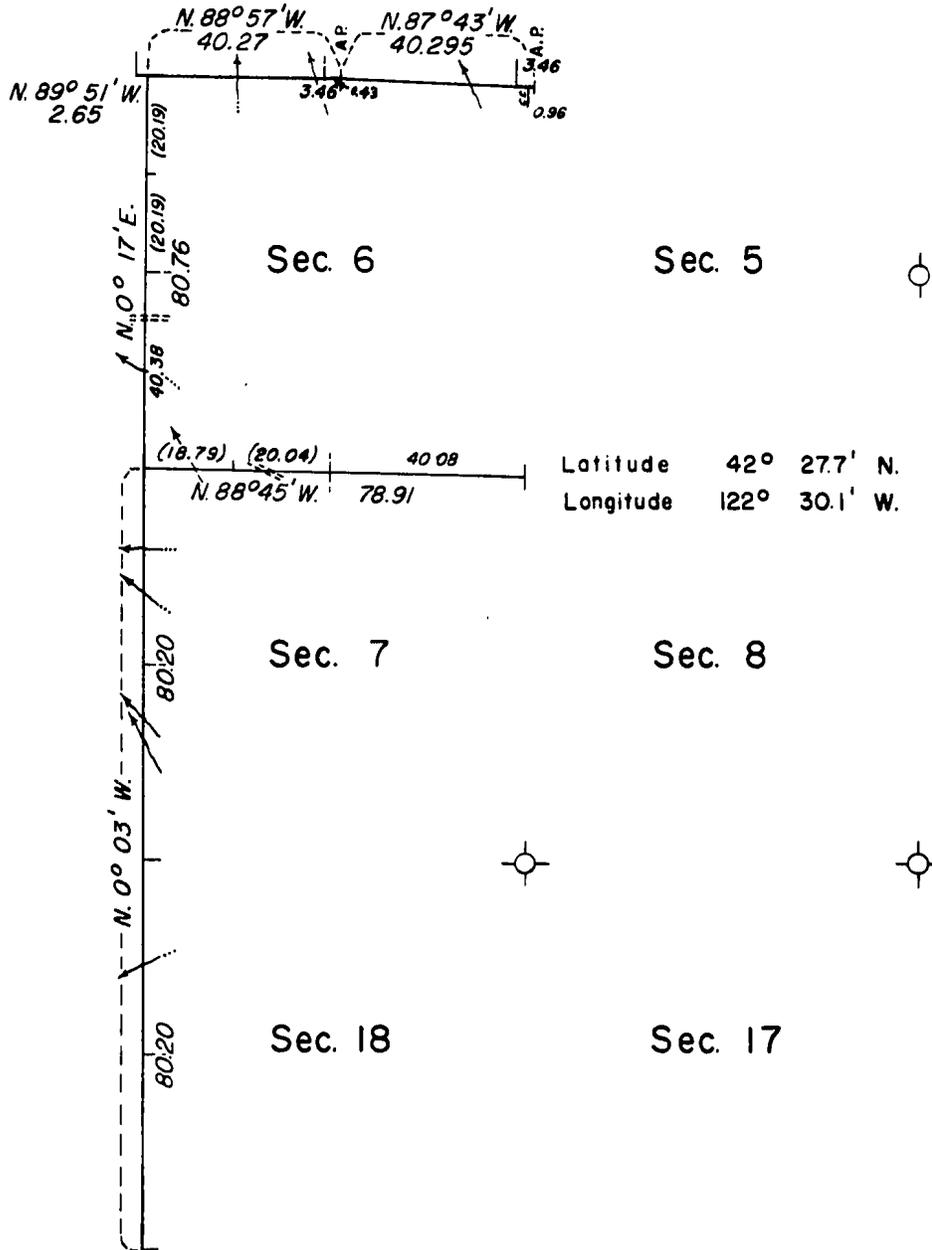


Figure 7b - Portion of Accepted Plat